



C4FM/FM 144/430 MHz
Dual Band 5W
Digital Transceiver
FT-70DR

« 700 mW Loud and Clear audio,
Commercial Grade Specifications »



C4FM/FM 144/430 MHz
Dual Band 5 W
Digital Transceiver
FT3DR

« Improved 66 ch
GPS receiver included »



C4FM/FM 144/430 MHz
Dual Band 5 W
Digital Transceiver
FT2DR

« Improved 66 ch
GPS receiver included »

System Fusion II

C4FM Digital
Pursuing Advanced Communications



C4FM/FM 144/430 MHz
Dual Band Dual Receive Digital Repeater
DR-2X



C4FM/FM
144/430 MHz Dual Band 50 W
Digital Transceiver

FTM-100DR

« Improved 66 ch GPS receiver included »



C4FM/FM
144/430 MHz Dual Band 50 W
Digital Transceiver

FTM-7250DR

« Heavy Duty 50 Watts High Power »



C4FM/FM
144/430 MHz Dual Band 50 W
Digital Transceiver

FTM-400XDR

« Improved 66 ch GPS receiver included »



C4FM/FM 144 MHz 65 W
Digital Transceiver

FTM-3200DR

« Genuine 65 Watts High Power »



CW/SSB/AM/FM/C4FM
HF/50/144/430 MHz Wide-Coverage
100 W All Mode Transceiver (144/430 MHz: 50 W)

FT-991A

« Real-Time Spectrum Scope included »



C4FM/FM 430 MHz 55 W
Digital Transceiver

FTM-3207DR

« Heavy Duty 55 Watts High Power »

System Fusion II Supports All C4FM Portables and Mobiles

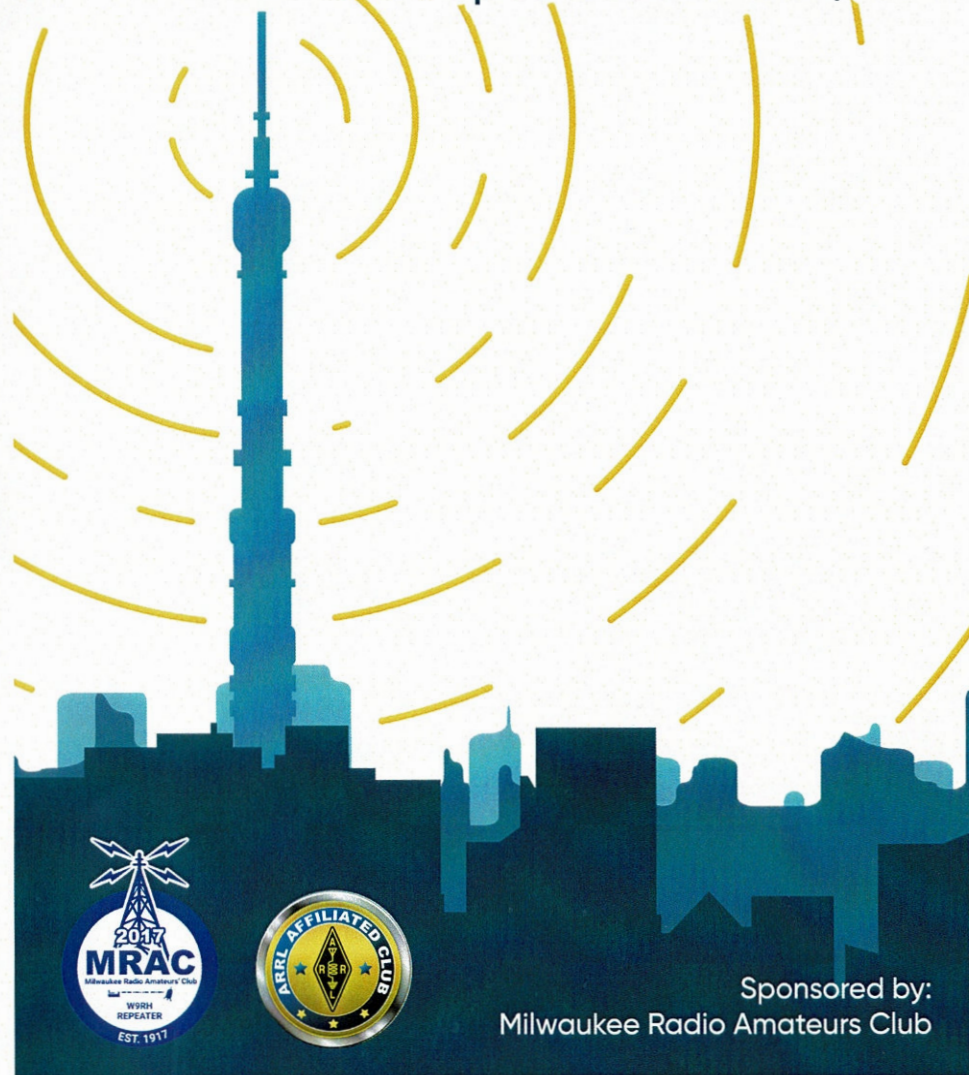
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The radio

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2019 ARRL CENTRAL DIVISION CONVENTION

September 27-28, 2019



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SCHEDULE OF EVENTS

Friday, September 27

5:30pm Banquet

7:00pm Raffle Icom IC-7300

Saturday, September 28

SPEAKERS

10:00am Bob Heil, K9EID

11:00am ARRL CEO
Dr. Howard Michel, WB2ITX
ARRL Q+A

12:30pm SDRplay
Operating the SDR Radio
Steve Brightman, KI5ENW

1:30pm Bioenno Battery

2:30pm West Mountain Radio

3:30pm COMPACtenna
Dr. Jack Nilsson, N8NDL

ICOM

Thanks to Icom America for their donation of the IC-7300 radio for the club raffle!

WELCOME

Welcome to the 2019 ARRL Central Division Convention.

Congratulations to the Milwaukee Radio Amateur's Club on their Anniversary of 100 years as an American Radio Relay League Affiliated Club. Founded in 1917, the MRAC has the distinction of being the only club from that first group of radio clubs which became affiliated with the American Radio Relay League in 1919.

In honor of this Centennial Anniversary, Dr. Howard Michel WB2ITX, the CEO of the ARRL, will present the Milwaukee Radio Amateur's Club with a special award at the Saturday 11 AM ARRL Forum which will celebrate the occasion of MRAC becoming the first ARRL Affiliated Club to achieve this milestone.

During this weekend's Central Division Convention stop by the ARRL Field Organization booths for the ARRL Wisconsin, Illinois and Indiana Sections to exchange thoughts and greetings with your ARRL Section Managers.

Meeting with the ARRL Section staff is an excellent opportunity to discover how you can become more involved with your ARRL team!

I owe a special mention of thanks to the leadership and members of the Milwaukee Radio Amateur's Club and the staff of HRO-Milwaukee for their efforts of organizing and hosting the 2019 ARRL Central Division Convention.

Thank You,

73, Kermit Carlson W9XA
ARRL Central Division Director

MRAC CLUB HISTORY

The Milwaukee Radio Amateurs' Club was formed in January 1917 by Loy SchellHillegas-Baird, A. C. Klettsch, J. B. Hitz and Alonzo Pawling.

In 1919, after World War I, the ARRL came up with the idea for local radio clubs to officially affiliate with ARRL to formalize a network for getting messages relayed from coast to coast. MRAC agreed and applied for ARRL club affiliation October 24, 1919. Affiliation was granted December 5, 1919 as one of a group of 10 clubs who would be the first batch of affiliated clubs. In a letter received by MRAC from ARRL dated 1/28/1970, MRAC was informed that of the original 10 affiliated clubs, MRAC was the only one still active, making MRAC the oldest and longest affiliated ARRL club.

For conventions, the first ever ARRL Central Division Convention was produced by MRAC in 1928 (when the Central Division included Kentucky, Michigan and Ohio). Then in 1940 the Wisconsin State Convention was organized by MRAC. In 1948, MRAC organized an ARRL National Convention which produced a profit of almost \$8,000 (just over \$85,000 in 2019 money). MRAC again hosted a Central Division convention (along with Menomonee Falls and West Allis clubs) in 1967.

Over the years MRAC members have had numerous ARRL field organization posts, including Emergency Coordinators, Section Emergency Coordinators, Radio Officers, Section Managers, Assistant Directors, and 3 different Division Directors. An MRAC member has even been an Assistant Secretary of ARRL.

For more information on the MRAC, check out our web site (www.w9rh.org) for a copy of our annually updated history book, and also YouTube (https://youtu.be/i947F-_Uomg) for a 15 minute video covering our 100th anniversary in 2017.

Congratulations MRAC on 100 Years...
you don't look a day past 99!



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RG-213, MIL-C-17, NON-MIGRATING JACKET

RG-8/U, HIGHEST POWER, DIRCT BURIAL, UV STABLE

RG-58/U, PORTABLE, LIGHTWEIGHT

UHF/VHF Applications

3810, LMR-400 TYPE, SOLID CENTER, UV STABLE PE JACKET, DOUBLE SHIELDED, LOW LOSS

3815, 9913 EQUIVALENT, ULTRAFLEXIBLE, DIRECT BURIAL, NON-MIGRATING, 2M 440

DBFLEX400(*NEW), DOUBLE SHIELDED, LOW LOSS, ULTRAFLEXIBLE, UV STABLE PE JACKET